

Title (en)  
LIGHT-EMITTING APPARATUS

Title (de)  
LICHTEMITTIERENDE VORRICHTUNG

Title (fr)  
APPAREIL ELECTROLUMINESCENT

Publication  
**EP 3021368 B1 20190313 (EN)**

Application  
**EP 15192896 A 20151104**

Priority  
KR 20140156034 A 20141111

Abstract (en)  
[origin: EP3021368A1] Embodiments provide a light-emitting apparatus including at least one light source, a wavelength converter configured to convert a wavelength of light emitted from the light source, a first lens configured to face a light emission surface of the wavelength converter, and a rounded reflector spaced apart from the first lens, the reflector being configured to reflect light emitted from the first lens.

IPC 8 full level  
**F21S 41/14** (2018.01); **H01L 33/60** (2010.01); **F21K 99/00** (2016.01); **F21S 41/16** (2018.01); **F21S 41/20** (2018.01); **F21S 41/36** (2018.01); **F21S 43/13** (2018.01); **F21S 43/20** (2018.01); **F21S 43/31** (2018.01); **F21S 43/40** (2018.01); **H01L 33/50** (2010.01)

CPC (source: CN EP US)  
**F21S 41/16** (2017.12 - EP US); **F21S 41/176** (2017.12 - EP US); **F21S 41/285** (2017.12 - EP US); **F21S 41/365** (2017.12 - EP US); **F21S 43/16** (2017.12 - EP US); **F21S 43/26** (2017.12 - EP US); **F21S 43/31** (2017.12 - EP US); **F21S 43/40** (2017.12 - EP US); **F21V 5/04** (2013.01 - CN); **F21V 7/22** (2013.01 - CN); **F21V 13/04** (2013.01 - CN); **F21V 17/101** (2013.01 - CN); **G02B 1/02** (2013.01 - EP US); **H01L 33/60** (2013.01 - EP US); **F21S 41/147** (2017.12 - EP US); **F21S 41/148** (2017.12 - EP US); **F21S 45/42** (2017.12 - EP US); **F21S 45/48** (2017.12 - EP US); **F21Y 2115/30** (2016.07 - EP US); **H01L 33/507** (2013.01 - EP US)

Cited by  
EP3687857A4; EP3480477B1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3021368 A1 20160518**; **EP 3021368 B1 20190313**; CN 105588011 A 20160518; CN 105588011 B 20190906; KR 20160056087 A 20160519; US 10191185 B2 20190129; US 2016131336 A1 20160512

DOCDB simple family (application)  
**EP 15192896 A 20151104**; CN 201510767183 A 20151111; KR 20140156034 A 20141111; US 201514935543 A 20151109